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06/14/90

DATE: JUNE 14, 1990

MATERIAL SAFETY DATA SHEET

SIPI METALS CORP.
1720 N. ELSTON AVENUE
CHICAGO, IL 60622

IDENTIFICATION		MAXIMUM PERCENTAGE BY WEIGHT													
NAME: BRASS, BRONZE INGOTS		Trade Name & Number	Leaded Red Brass & Semi-Red Brass CA# 830-849 <i>Contact Metal</i>	Leaded Yellow Brass CA# 850-859	High Strength Yellow Brass <i>Manganese 70, 90</i> CA# 860-869 <i>#110</i>	Silicone Bronze & Brasses CA# 870-879	Tin Bronze <i>SAE 62</i> CA# 900-919 <i>SAE 65- SAE-622</i>	Leaded & Leaded Tin Bronze <i>SAE 62, SAE 63</i> CA# 920-929 <i>Green Bronze</i>	High-Lead Tin Bronze CA# 930-945 <i>SAE 660 SAE 64</i>	Nickel & Tin Bronze Leaded-Tin Bronze CA# 946-949	Aluminum Bronze CA# 950-959 <i>ABA-415 AB8-416 - ABC-417 - ABO-418</i>	Cupro-Nickel CA# 960-969	Leaded Nickel Bronze CA# 970-979	Special Alloys CA# 990-995	White Brass CA# 999-999
COPPER:	7440-50-8		89.0	73.0	66.0	96.0	89.0	90.0	85.0	89.0	89.0	87.0	67.0	90.0	61.0
TIN	7440-31-5		6.0	1.5	1.0	X	20.0	20.0	14.0	6.0	X	8.5	5.5	X	1.0
LEAD:	7439-92-1		7.7	3.5	1.3	1.0	X	5.7	27.0	5.7	X	X	11.0	X	2.5
	744-66-6		16.0	41.0	42.0	36.0	1.5	5.0	4.0	6.0	X	1.5	25.0	5.0	25.0
IRON	1309-37-1		X	X	4.0	X	X	X	X	X	5.0	1.0	1.0	5.5	1.0
NICKEL:	7440-02-0		1.5	.8	.8	.5	2.0	4.0	1.0	6.0	5.5	31.5	21.0	26.0	6.0
PHOSPHORUS:	7723-14-0		X	X	X	X	1.0	1.0	X	X	X	X	X	X	X
ALUMINUM	7429-90-5		X	X	7.5	X	X	X	X	X	11.5	X	X	2.0	3.0
MANGANESE:	7439-96-5		X	X	5.0	1.5	X	X	X	X	14.0	1.5	1.0	X	23.0
SILICON	7440-21-3		X	X	X	5.5	X	X	X	X	3.3	X	X	2.0	X

SPECIAL INSTRUCTIONS FOR SARA 313 CHEMICALS

The chemicals present in this product are marked with an (*) are subject to reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 in 40 CFR, Part 372. If no percentage is shown, the chemical represents less than 1% by weight of the product (if the chemical is not a carcinogen) or less than 0.1% (if the chemical is known or suspected carcinogen). This information must be included in all MSDS's that are copied and distributed for this material.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986.

Chemical known to cause cancer: Nickel (CAS 744-02-0)

Chemical known to cause reproductive toxicity: Lead (CAS 7439-92-1)

USEPA SF



1265387

PHYSICAL DATA

See appropriate attachment.

REACTIVITY DATA

See appropriate attachment.

PHYSIOLOGICAL EFFECTS

See appropriate attachment.

SPECIAL PROTECTION INFORMATION

VENTILATION: Local exhaust ventilation should be used to keep worker exposures within allowable limits during welding or grinding operations.

RESPIRATORY PROTECTION: When engineering or administrative controls are not feasible to control overexposure or while they are being instituted, appropriate NIOSH respirators should be used and selected according to 29 CFR 1910.134.

EYE PROTECTION: Appropriate personal protective equipment for the eyes should be worn when there is a reasonable probability of injury due to welding or grinding.

PROTECTIVE GLOVES: As needed to protect against physical hazards.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: If acute overexposure to fumes occurs, remove victim from the adverse environment and seek medical attention.

SKIN CONTACT: If dust or mist gets on the skin, wash the contaminated skin with soap and water. Remove contaminated clothing and launder before using again.

EYE CONTACT: Flush with large amounts of water.

INGESTION: If particles are ingested, give 1 - 2 glasses of water or milk. Induce vomiting only if victim is fully conscious and has not convulsed. All ingestion cases should have immediate medical aid.

SPILL OR LEAK PROCEDURES

Minimal problems with spills of this product would occur because of its solid form. However, if there is a spill of dust, clean-up using methods which avoid dust generation and the use of water, such as a vacuum. If airborne dust is generated during clean-up, use an appropriate NIOSH approved respirator.

CARCINOGENIC ASSESSMENT

See appropriate attachment.

FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Flammable Limits: N/A

Extinguishing Media: Mixture of dry chemical and sand.

Solid forms are not combustible. Fire and explosion hazards are moderate when material is in the form of dust and exposed to heat, flames, chemical reaction or contact with powerful oxidizers. Fire fighters should wear self-contained breathing apparatus and protective clothing.

ADDITIONAL INFORMATION

It is advised that your particular operation be evaluated by a competent health professional to determine whether or not a hazard exists when handling or processing these materials.

In case of questions, please call:

George Phillips
Sipi Metals Corp.
312/276-0070

Issue Date:

6/14/90
~~12/16/89~~

Supersedes:

all prior to date

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